TransCAD is the most comprehensive, flexible, and capable travel demand modeling software ever created. TransCAD supports all important styles of travel demand modeling including sketch planning models, four-step demand models, and activity models with a complete toolkit for planners and traffic engineers.

TransCAD 7.0 includes new features and enhancements designed to increase the flexibility, ease of use, modeling accuracy, and computational performance:

**Highway modeling enhancements**
- New line layer format supporting elevation data
- Very accurate network isochrones
- New traffic impact analysis module
- Faster assignments with turn penalties
- Toll revenue reports
- HCM 2010 analysis procedures

**Transit modeling innovations**
- More realistic multi-path access and egress
- Computationally improved OD matrix estimation
- Faster select link analysis
- Revamped transit isochrones
- Enhanced schedule-based assignment

**Activity-Based Model (ABM) support**
- Advanced choice modeling application frameworks (MDCEV and Hazard Duration)
- Destination choice with shadow pricing
- Efficient Monte Carlo choice simulator

**Powerful flowchart model interface**
- Link model components, visualize specifications and parameters.

**New visualization and charting capabilities**

**Significant computational boost**
- Automated support for multi-threading, parallel computing and distributed computing
- Compute engines to facilitate parallel applications

**Geographic Information Systems (GIS) features**
- Web map layers
- More projections and coordinate systems
- 3D window, support for VRML, Google SketchUp, AutoDesk 3D
- Facility site location wizard
- Support for OMX open matrix format

**Updated data**
- Latest ACS and LEHD
- 2014 ZIP Codes
- New North America rail network
- Option for the latest HERE road networks

A full Activity-Based Model (ABM) for Tel Aviv, Israel (with a population of 3.6 million) was efficiently implemented in TransCAD 7.0.

The Southern California Association of Governments (SCAG) ABM was developed in TransCAD 7.0, featuring a flexible flowchart interface and cutting-edge modeling capabilities predicting detailed activity patterns and schedules for over 18 million residents.

An advanced-practice model for the Association of Monterey Bay Area Governments (AMBAG) was delivered in TransCAD. The model highlights person-based trip generation, innovative destination choice models and 5D accessibility measures.

An accessibility toolkit was created for multi-modal accessibility calculations in TransCAD and on the Web.

TransCAD 7.0 was used to develop a freight waybill assignment and query tool for the Federal Railroad Administration (FRA).